HART DIN Rail Temperature Transmitter

DS3017



Features:

- HART® protocol
- Universal input
- Sensor burnout detect
- Isolation to 500V AC

Description:

The GEN315 has full HART communication protocol which allows the user to quickly and easily download information or interrogate the device enabling the following:

- simple re-ranging of sensor type and range;
- easy on-site re-calibration;
- self documentation;
- Operation with proprietary software packages such as AMS Plant Web™ and Cornerstone™;
- Remote configuration on the 4-20mA loop with a hand held communicator or with a PC & HART modem; and
- Online digital communication concurrent with a 4-20mA analogue signal

All the standard HART universal and common usage commands are fully implemented, with other device specific commands that enable access to the enhanced performance parameters of the GEN315.

UKAS CALIBRATION 0043

BSI UKAS QUALITY MANAGEMENT CERTIFICATE NO. FM22358

General Note
TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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TT Electronics | Roxspur Measurement & Control
2 Downgate Drive, Sheffield, South Yorkshire, S4 8BT, UK |Ph: +44 (0) 114-244-2521
www.ttelectronics.com | RoxspurSales@ttelectronics.com

HART DIN Rail Temperature Transmitter

Input Types	PT100, thermocouple, mV or slidewire. (Ni100 via Custom[X] *[1] facility)
Time Constant	0.5s to (90% of final value)
Warm-up Time	120s to full accuracy
Input/Output Breakdown Isolation	500V AC tested to 3000V aC
Re-calibration Interval	1 year, to maintain accuracy to published specification. 5 years, to maintain accuracy to less than twice published specification.
ENVIRONMENTAL	
Operating Range	-40 to 85ºC
Storage Temperature	-50 to 85ºC
Humidity Range	0 to 95% non-condensing
APPROVALS	
EMC	BS EN61326:1998
OUTPUT	
Max Output Load	[(V supply - 10)/21.5] KW, 250 ohms minimum loop load. Supply voltages over 30V a minimum loop load of 500 ohms is necessary.
Burnout Levels	Low 3.75mA, High 21.5mA
Input Out of Range	Low 3.8mA, High 20.5mA
Output Range	4-20mA, minimum 3.75mA, maximum 21.5mA
Accuracy	±5µA
Thermal Drift	1µA/ºC
Supply Voltage	10-40V DC
Supply Voltage Effect	0.2µA/V

*[1]Customer linearisation is available pre-programmed at the factory, contact our sales team for more details.

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